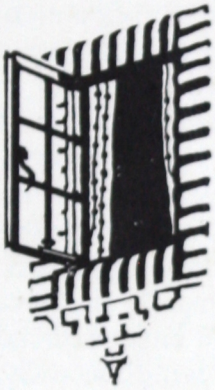
HOPE'S WINDOWS

MANCHESTER - 42 King Street West
GLASGOW - - 18 Blythswood Square
NEWCASTLE-ON-TYNE - 5 Higham Place
LEEDS - - - 110 Albion Street
DUBLIN - - 68 Dame Street
BELFAST - - 16 Donegall Square South

√18

HOPE'S
Standard Steel
WINDOWS



HENRY HOPE & SONS LTD.
SMETHWICK · BIRMINGHAM
59 *Berners St., London, W.*1
B.C.M./HOPE'S—July, 1926

WHEN we introduced our standard steel windows during 1919, we sought the advice of fifteen Architects in various parts of Great Britain, each of whom designed a cottage, to test whether our standards would meet modern requirements for lighting and ventilation and seemly appearance. We published a book of photographs of these cottages, and our sizes and types were immediately adopted as national standards. We have since supplied many thousands of windows for a wide variety of dwellings all over the world, and they have proved so satisfactory in use that we have only found certain minor modifications necessary.

We have introduced some improvements:

1. Channelled section for the casement.
2. Improved cleaning hinges.
3. Improved handle and back plate.
4. Heavier and improved sliding stay.
5. Composite windows each in one unit.

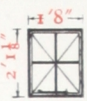
ADDITIONS: A new range five panes high (page 5), and a new range of side hung casements with leaded glass (pages 41 to 46). Standard French windows (pages 22 to 25).

Hope's standard windows are weathertight in all ordinary situations, and may be depended upon for durability.

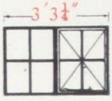
HOPE'S SPECIFICATION

All bars solid rolled, straight and true, free from hammer marks or distortions.
All corners to be solid welded, and neatly cleaned off.
Brackets and plates for fittings solid welded to the frames.
Hinges of mild steel, with bronze pintles.
Astragals of T. section $\frac{3}{4}$ in. wide on the face, jointed at the intersections on Hope's Lok'd Bar principle, and hydraulically closed.
Fittings of our own manufacture, of generous proportions, with unimpeachable working parts, see pages 30 and 31.
Curtain Brackets : Two sets with each window for long and short curtains.
Casements open and close smoothly and easily, fitting on both faces inside and out when closed.
Lugs or fixing screws included with the windows.
FINISH : One coat of anti-corrosive lead coloured paint, and a finishing coat of elastic grey enamel, both coats baked on after thorough cleaning.

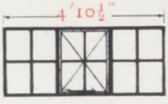
HOPE'S STANDARD TYPES & SIZES



T.1
11/3



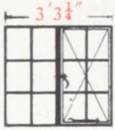
T.2
15/-



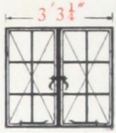
T.3
17/-



V.1
14/6



V.2
18/6



V.2Z
27/6



V.3
22/6



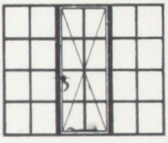
V.5
15/9



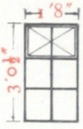
V.6
20/9



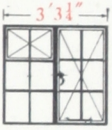
V.66
30/6



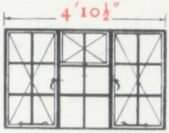
V.7
26/-



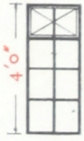
V.9.T
11/6



V.2.T
24/3



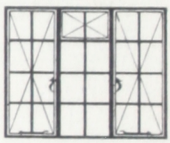
V.4.T
36/3



V.10.T
12/9

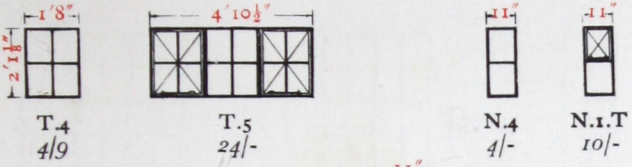


V.6.T
26/3

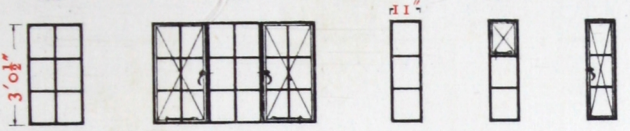


V.8.T
40/9

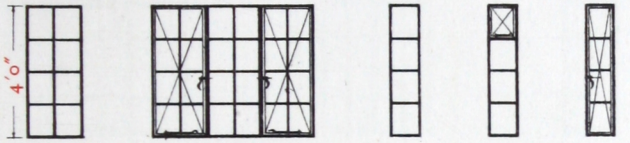
HOPE'S TYPES AND SIZES (continued)



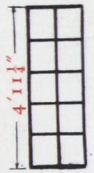
T.4 *4/9* — T.5 *24/-* — N.4 *4/-* — N.1.T *10/-*



V.9 *6/-* — V.4 *31/3* — N.9 *5/-* — N.9.T *11/-* — N.1 *12/6*

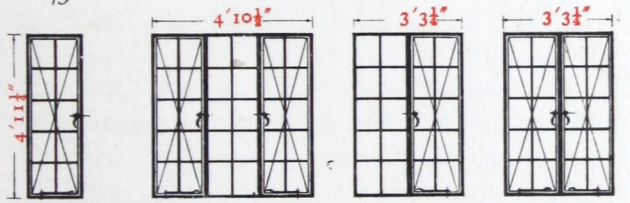


V.10 *7/3* — V.8 *34/6* — N.10 *5/9* — N.10.T *12/-* — N.5 *14/-*



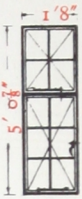
V.15 *8/9*

All casements are side hung to open out except the "T" type ventilators, which are hung at top to push out. All these windows can be coupled with vertical ⊥ mullions.

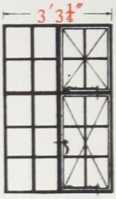


V.11 *18/3* — V.14 *41/6* — V.12 *25/-* — V.13 *34/9*

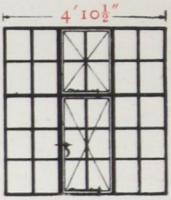
HOPE'S TYPES AND SIZES (continued)



V.1.T.1
28/6



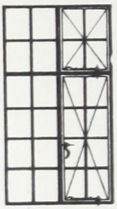
V.2.T.2
35/-



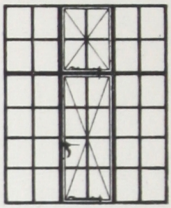
V.3.T.3
43/-



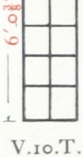
V.5.T.1
29/9



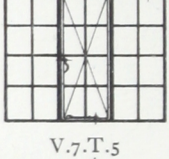
V.6.T.2
38/-



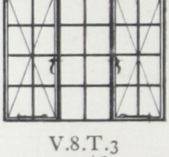
V.7.T.3
46/6



V.10.T.1
18/-



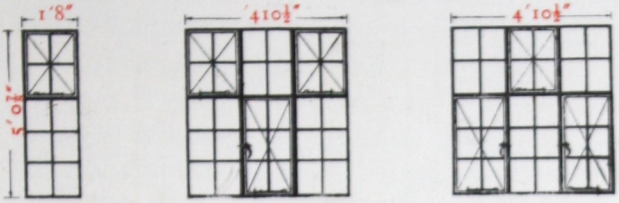
V.7.T.5
53/-



V.8.T.3
57/6

These windows with transomes are each made in one solid unit. A sound job of fine appearance which saves money in erection as compared with loose parts, coupled with transome bars.

HOPE'S TYPES AND SIZES (continued)



V.9.T.1 *17/-*

V.3.T.5 *49/6*

V.4.T.3 *54/-*

(See footnote on opposite page)

All prices include for standard *iron* fittings (pages 30 and 31), consisting of Hope's improved 2-point handle with radial stop (Pat. No. 244023/25) and non-projecting sliding stay for side hung casements; peg stay for top hung casements; and rack stay for 2-pane night ventilators. Prices also include for delivery to the site, if within the Railway Company's free delivery area.

EXTRAS: Cleaning hinges, 1s. 3d. per casement. Solid bronze handle and part bronze sliding stay 1s. 6d. per casement.

Bay Windows are shewn on pages 32 to 35.

Standard Hardware is shewn on pages 25, 29, 30 and 31. Hinges, pages 26 and 27.

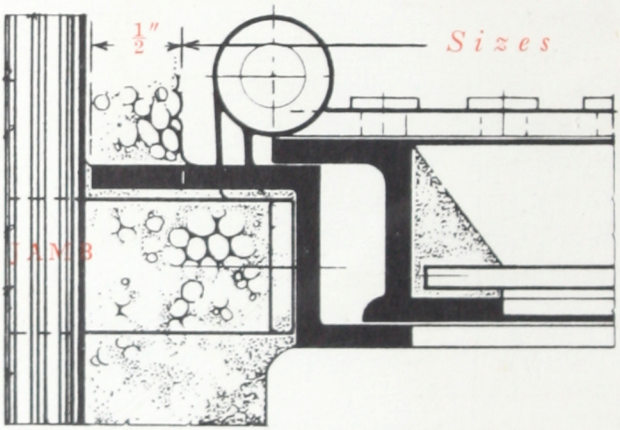
Standard French Windows are shewn on pages 22 to 25.

"L" Type standard casements with leaded glass are shewn on pages 40 to 46.

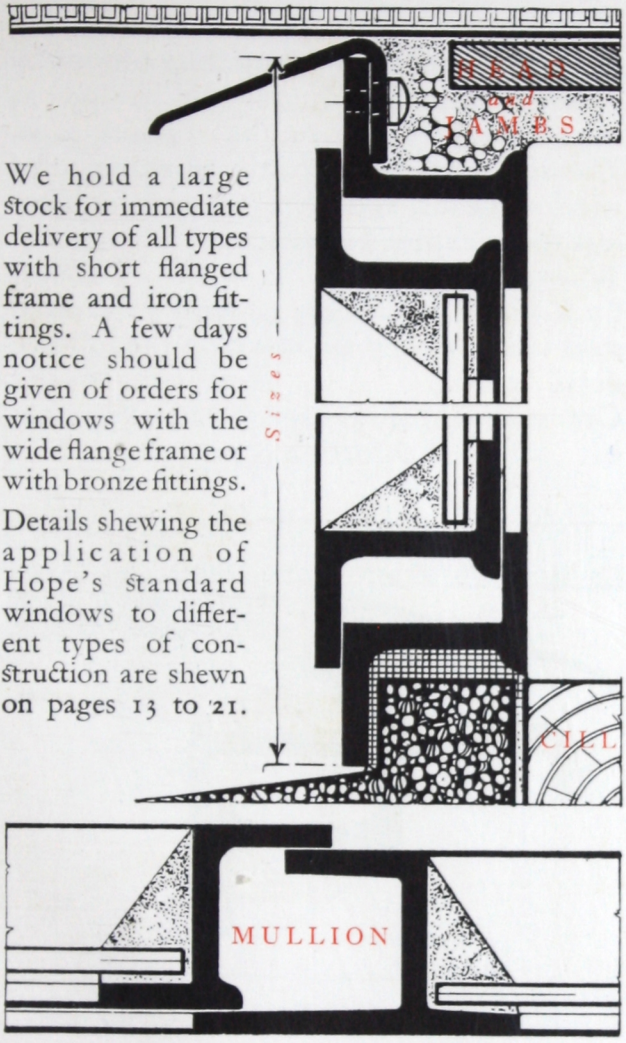
HOPE'S FULL SIZE SECTIONS

We supply two kinds of frame, which differ only in the width of the outer flange. The ordinary frame (shewn on the opposite page) was not wide enough for external cement without burying the hinges, so we introduced a wider frame, which adds one inch to height and width. This should be used for brick cavity walls, to allow room for the damp course over the cavity. It saves time, because bricklayers can build the walls up to the edge of the frame without having to allow a space for cement or plaster.

LONG FLANGE FRAME



SHORT FLANGE FRAME



We hold a large stock for immediate delivery of all types with short flanged frame and iron fittings. A few days notice should be given of orders for windows with the wide flange frame or with bronze fittings.

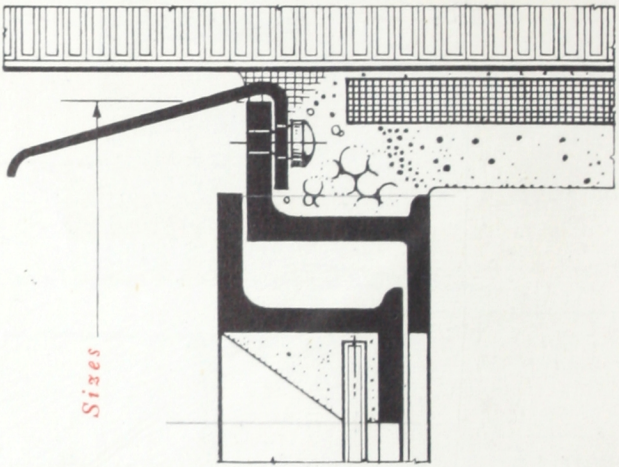
Details shewing the application of Hope's standard windows to different types of construction are shewn on pages 13 to 21.

HEAD WEATHERINGS

Where it is possible to form a weathering or throating, either by projecting tiles or by a groove in cement, this should be done as shown on the details on the opposite page. These features improve the appearance of window heads, and are a safeguard against leakage in exposed situations.

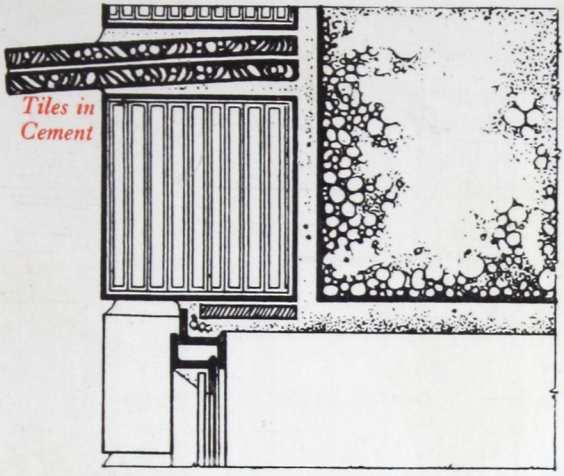
When it is desired to fix windows almost flush with the outside, we supply galvanized steel weather bars, as shewn on the full size detail below.

Orders should always specify metal weather bars, when no throating is provided.

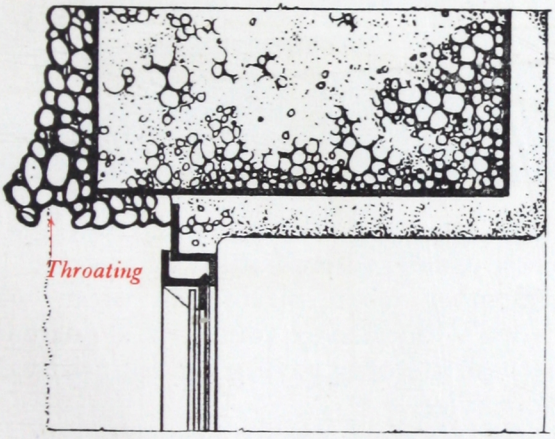


FULL SIZE DETAIL

DETAILS ONE-QUARTER FULL SIZE



DRIP FORMED *by* PROJECTING TILES



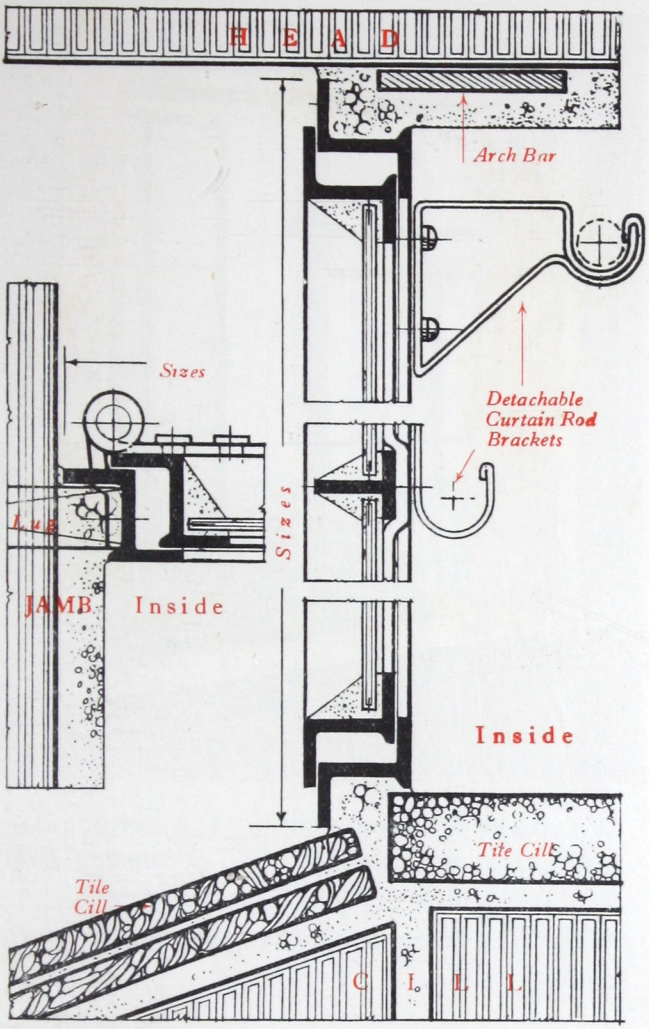
ROUGHCASTED FINISH *on* CONCRETE

HOPE'S V.2 STANDARD WINDOW



There are many imitations of Hope's windows, usually offered at lower prices.
Remember when placing an order what "Hope's" means to you—it is a guarantee that you are only paying for essential value and service.
We hold a stock for prompt delivery.

FIXING TO SOLID BRICKWORK

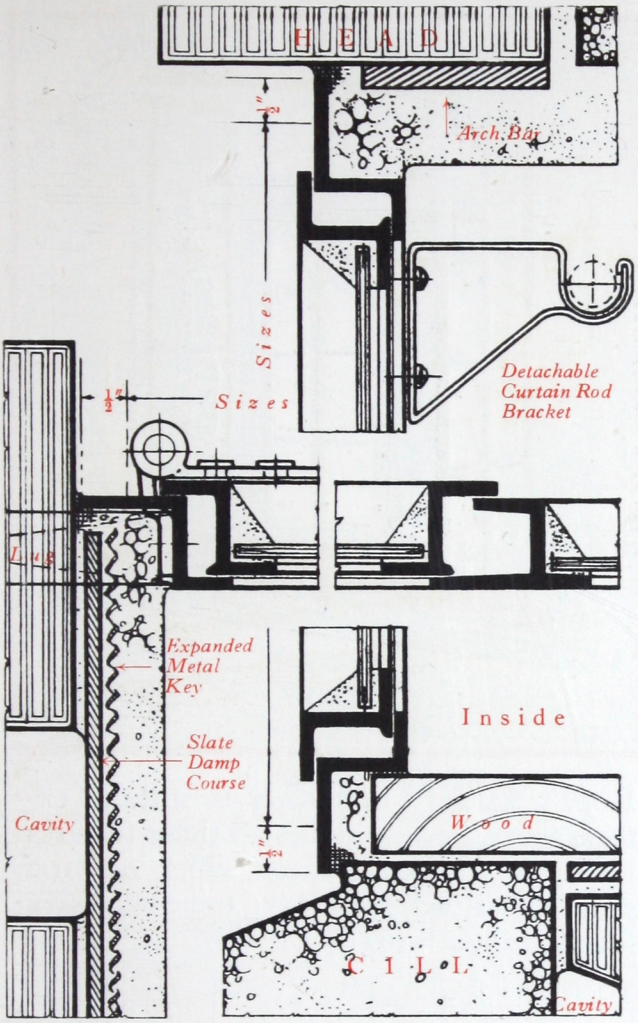


HOPE'S V.2.T STANDARD WINDOW



We accept full responsibility for all our products, and will replace free of charge any window which discloses a latent defect.
We hold a large stock for prompt delivery.

FIXING TO BRICK CAVITY WALLS

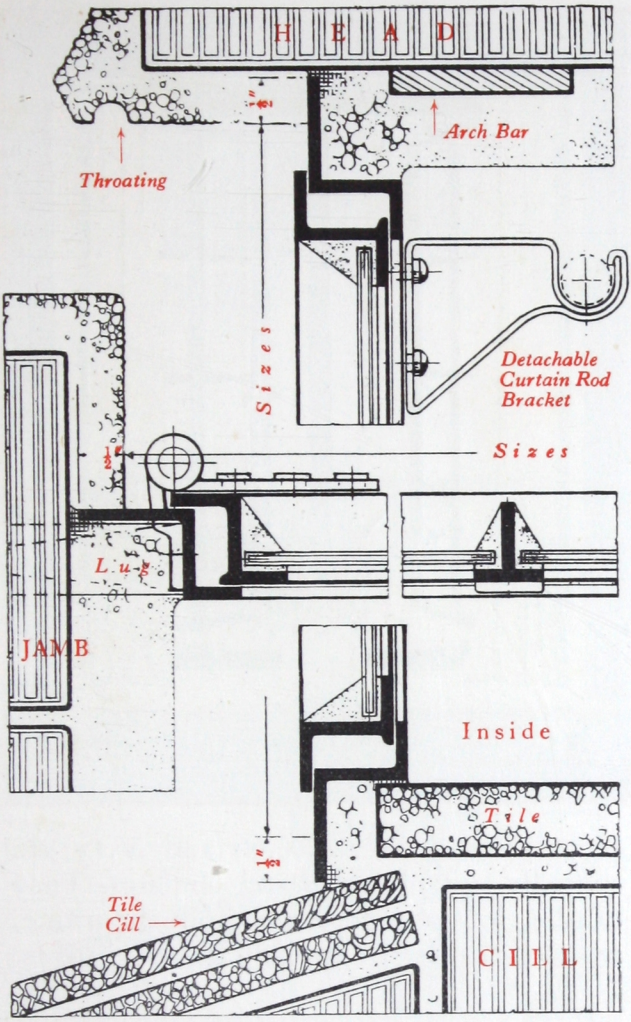


HOPE'S V.8 STANDARD WINDOW



Hope's standard of quality is without extravagance, and embodies all those features in design and construction which our 100 years' experience has proved to be necessary for permanent work.

FIXING TO ROUGH CAST WALLS

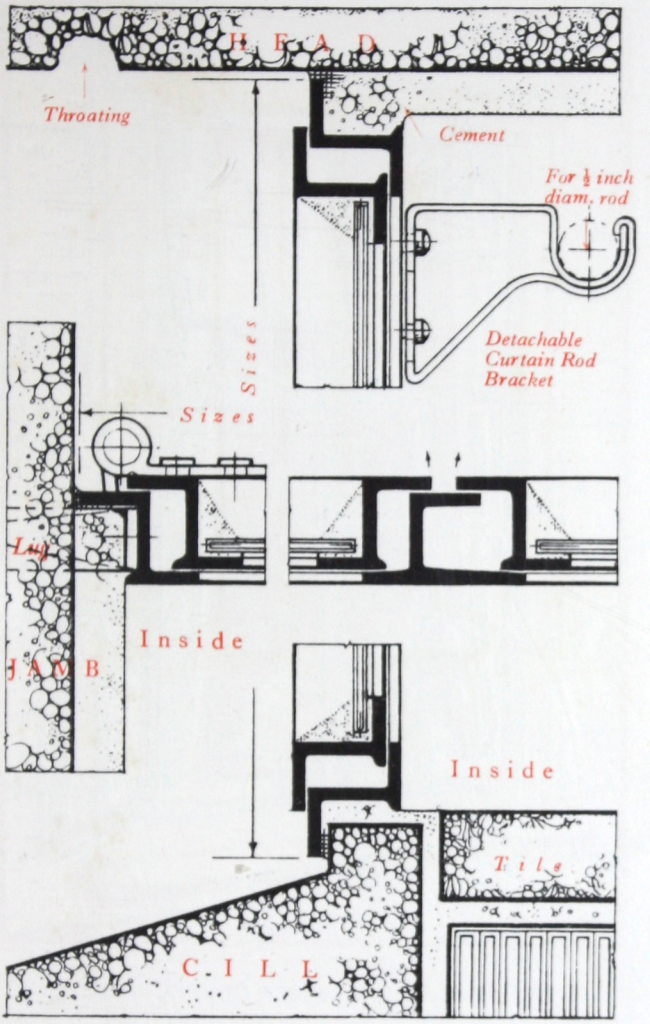


HOPE'S V.66 STANDARD WINDOWS



Hope's Types V.22, V.66 and V.13 are specially suitable for warm climates. They can be cleaned with safety from the inside, without the use of special cleaning hinges.

FIXING TO CONCRETE WALLS

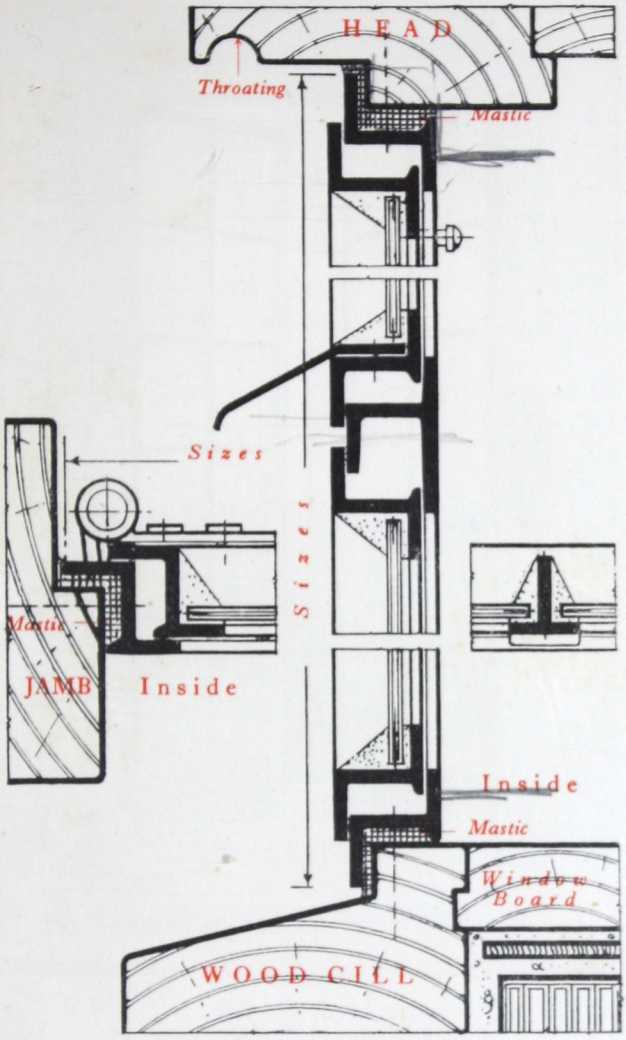


HOPE'S V.2T.2 STANDARD WINDOW



A frame building weather boarded with elm.

FIXING TO WOOD CONSTRUCTION



ONE HALF FULL SIZE DETAILS

HOPE'S FRENCH WINDOWS



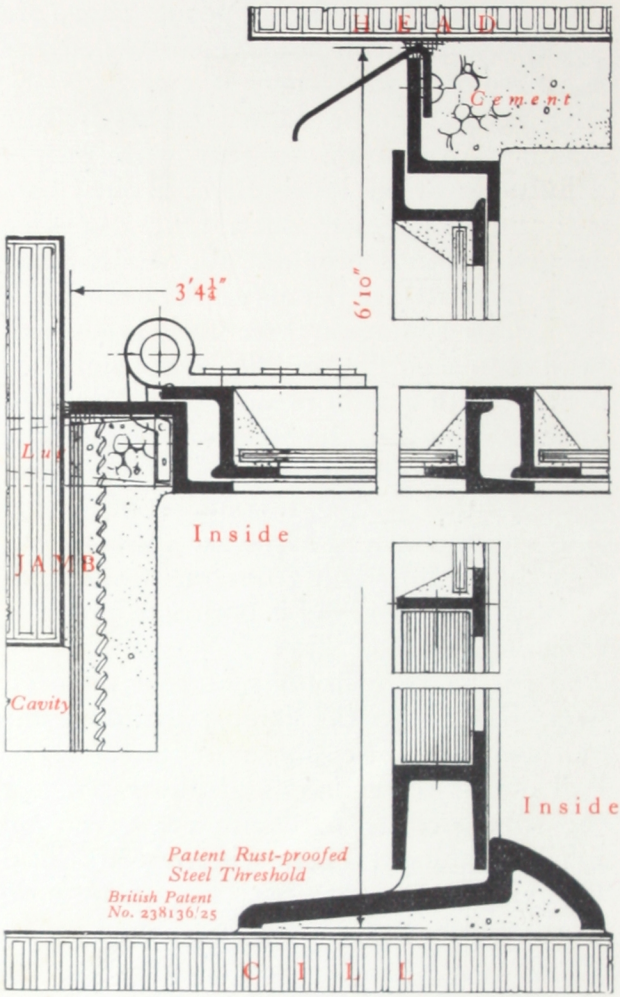
Type D.4, £6 . 0 . 0

STANDARD French Windows, as illustrated on the opposite page, are now available for immediate delivery from stock.

The panes are the same size as in our Standard Windows, so that with proper adjustment of cill levels all horizontal bars will range with each other. Only our wide flanged frame is supplied, the width being 3′ 4¼″ over all (see details on the next page). Each door is hung on three steel hinges with solid bronze pintles, and the right hand door is fitted with a solid bronze cremorne bolt, which shoots into the bronze sockets in the frame at top and bottom. The left hand door is fitted with two solid bronze bolts. This arrangement of hardware allows of the right hand door being operated independently of the other, and is both safe and convenient in use.

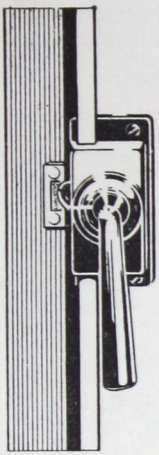
The patent threshold is of rust-proofed steel, welded to the jambs, forming one unit which can be easily set in place.

Full details of sections and illustrations of the solid bronze hardware are given on pages 24 and 25. These windows are ideal for living rooms, or bedrooms opening on to verandahs or balconies.

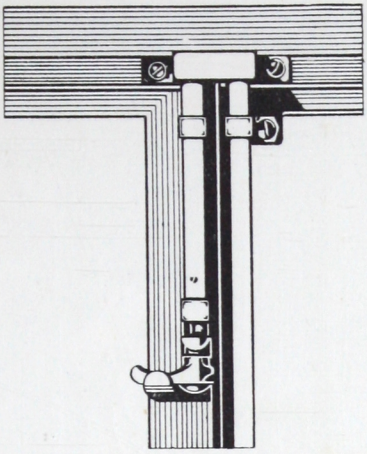


HALF FULL SIZE DETAILS

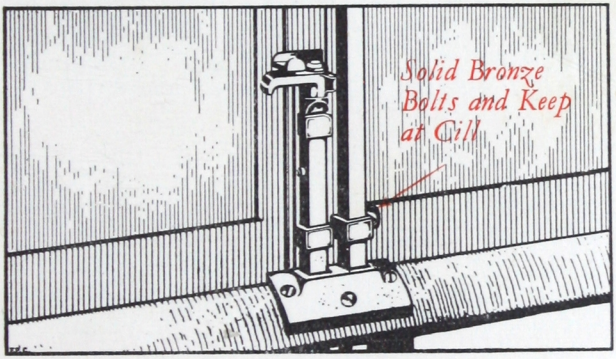
FRENCH WINDOWS (continued)



Solid Bronze Cremorne Bolt



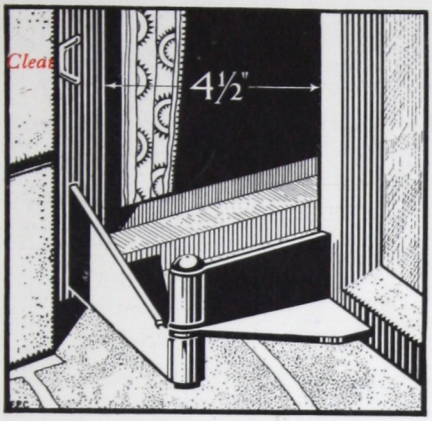
Solid Bronze Bolt on left hand leaf at Head



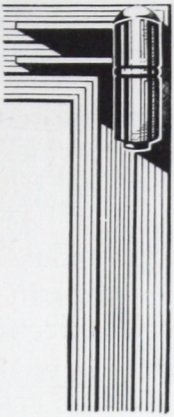
FITTINGS ONE-THIRD FULL SIZE



A Hope V.2.T Standard Window, provided with cleaning hinges.



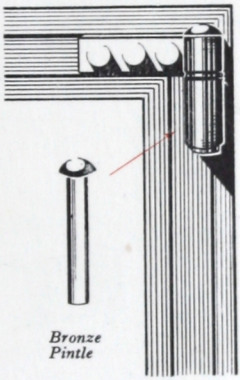
VIEW OF HOPE'S CLEANING HINGE WITH WINDOW FULLY OPENED



OUTSIDE VIEW WINDOW CLOSED

The two upper illustrations show Hope's improved cleaning hinges, which provide a space of 4½ inches when fully opened. They are made of mild steel with bronze pintles and washers and are welded solid into the window flanges.

They are of great strength and carry our full guarantee against breakage or sagging of the casement.



ORDINARY HINGE

Note space for operation of awning cords.

ORDERING INSTRUCTIONS

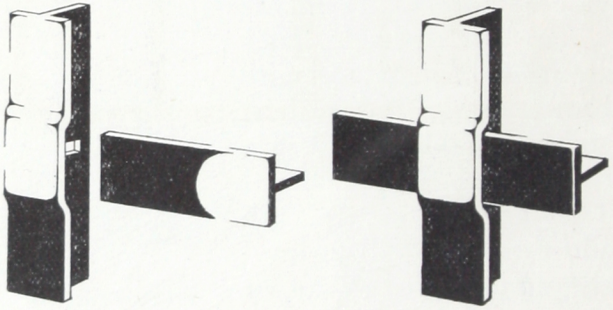
When ordering state hand of casement. The hand of a casement is determined from the position of the hinges when looking from the inside, see illustration on the opposite page, which shews a left-hand casement.

Specify whether iron or bronze fittings, ordinary or cleaning hinges, also if weather bars should be supplied (see page 10).

Give particulars of construction employed with reference to details shown on pages 13, 15, 17, 19 and 21, so that appropriate fixing material may be sent, and state whether ordinary or wide flanged frame is required.

Give full consignment address and nearest railway station.

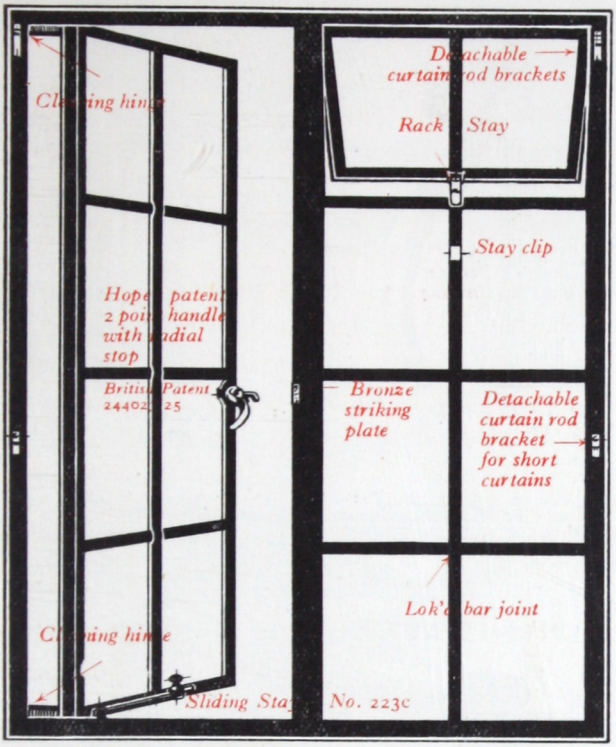
HOPE'S LOK'D BAR JOINT



Astragals before threading

Joint hydraulically closed

A STANDARD V.6T. WINDOW

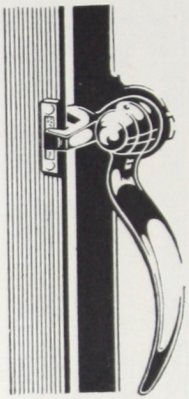


The combination of Hope's two-point handle and their non-projecting stay provides perfect control in all weather. Ventilation without rattle. Casements may be set open securely at any angle, and cannot be damaged in a gale.

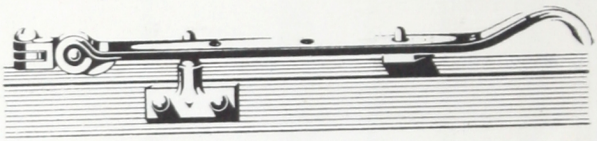


CASEMENT
CLOSED

2 POINT
HANDLE
No. 963c
WITH PATENT
RADIAL STOP
gives a
little ventilation
without rattling
British Patent
No. 244023/25

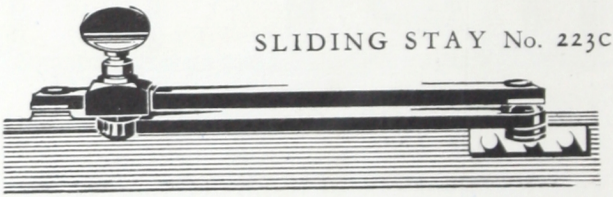


CASEMENT OPEN
1" *for* VENTILATION

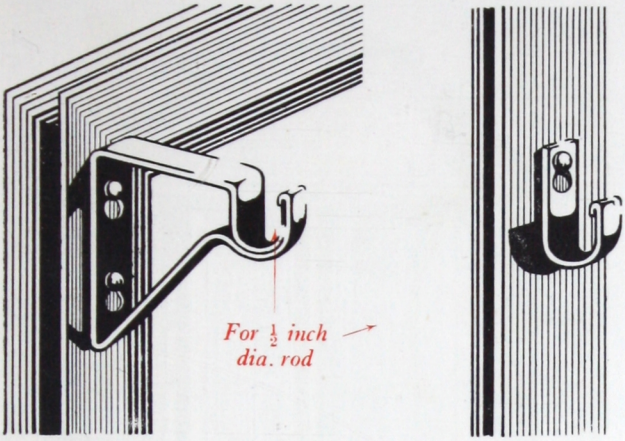


IRON PEG STAY No. 1575c *for* 4-PANE TOP HUNGS

SLIDING STAY No. 223c

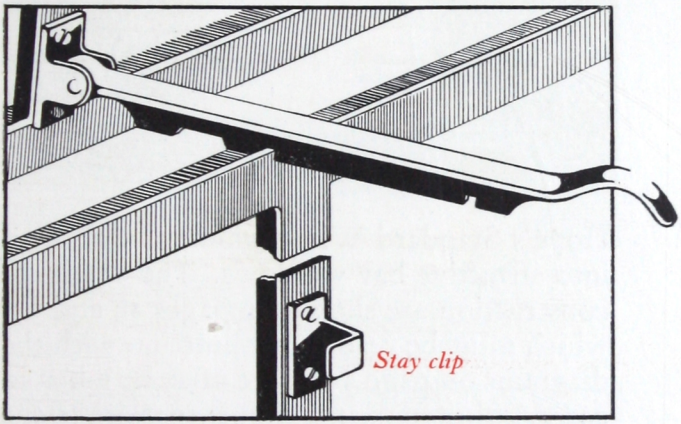


Unless otherwise specified, windows are supplied with iron handles and sliding stays. Handle in bronze, with part bronze sliding stay No. 223c, 1/6 extra for each casement.

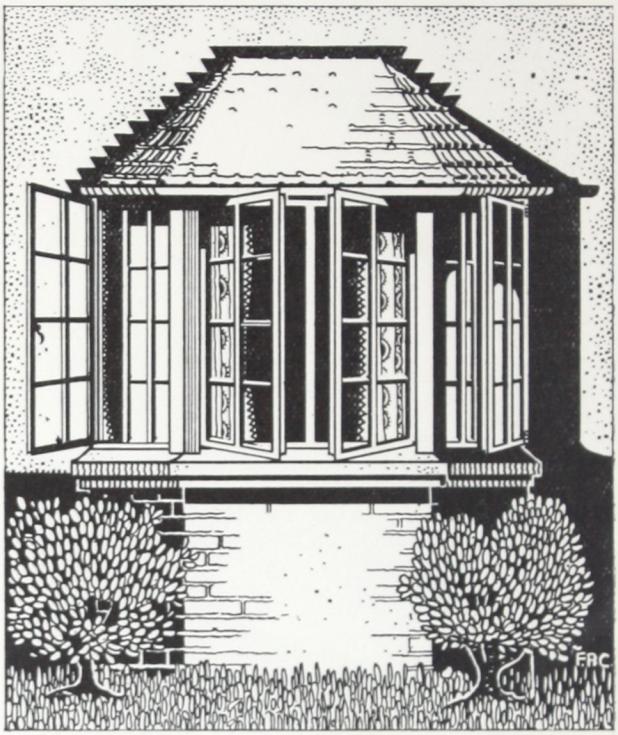


FOR LONG CURTAINS FOR SHORT CURTAINS

RACK STAY No. 4246 *for* 2-PANE VENTILATORS

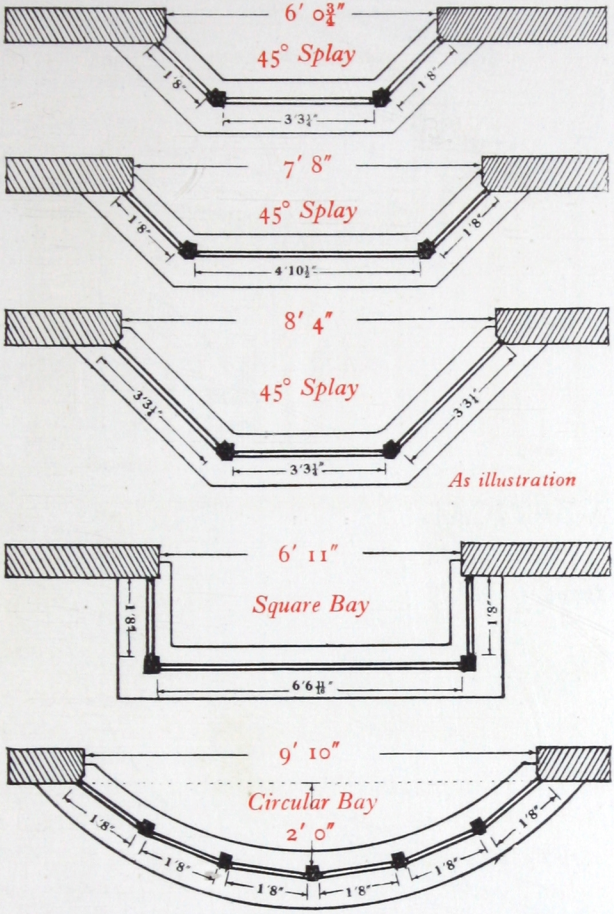


When closed the stay hangs in line with astragal and holds the casement firmly.



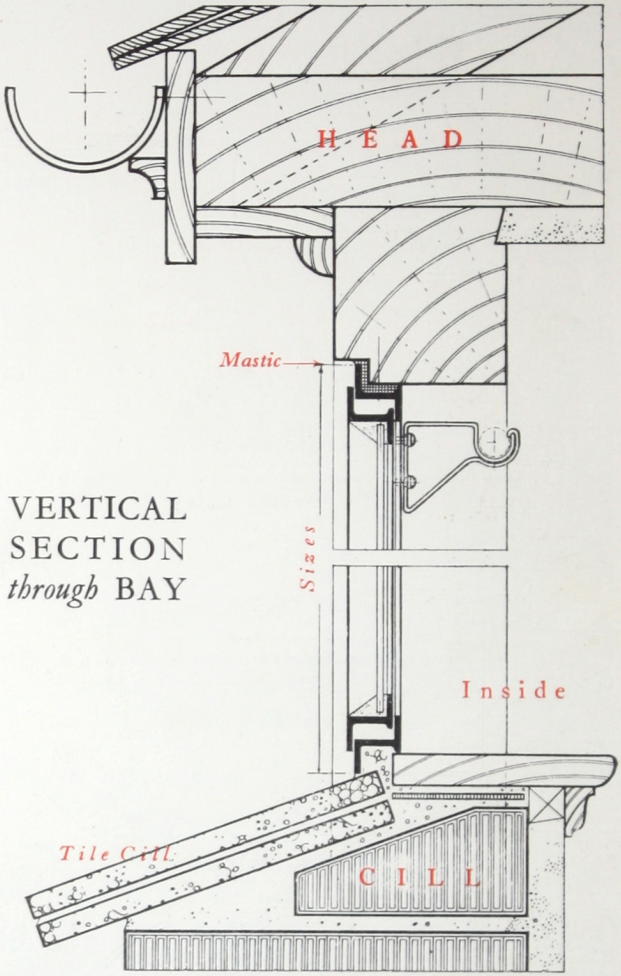
Hope's Standard Windows may be formed into attractive bay windows. The details of construction are shown on pages 34 and 35, which must be read in conjunction with the diagrams on page 33. Care must be taken in constructing the wood frames to work to the standard sizes given on pages 4—7, according to the types of steel windows selected.

BAY WINDOWS



Brickwork openings may be built to the dimensions shewn on $\frac{1}{4}$″ scale diagrams above, and to details shewn on next two pages.

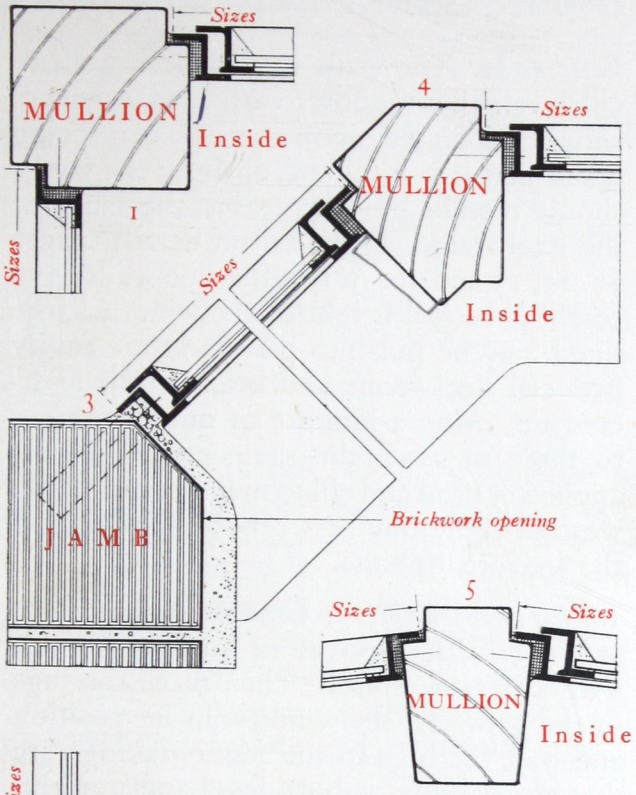
BAY WINDOW DETAILS

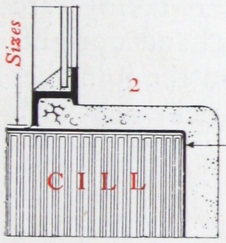


VERTICAL
SECTION
through BAY

ONE QUARTER FULL SIZE DETAILS

MULLIONS AND JAMBS





1. MULLION *for* SQUARE BAYS
2. JAMB ,, ,, ,,
3. JAMB *for* 45° SPLAYED BAYS
4. MULLION ,, ,, ,,
5. MULLION *for* CIRCULAR BAYS

(Jambs will be as No. 3)

ONE QUARTER FULL SIZE DETAILS

INSTRUCTIONS FOR FIXING HOPE'S STANDARD WINDOWS

Building In: The walls having been built to cill level, the window, with lugs attached, should be placed upon the cill, care being taken that it is level and upright; the jambs should then be built up against the flange of the steel frame, as shown on details, pages 13, 15, 17 and 19. When the side walls have reached the full height of the windows, the lintel may be put into place and the cavity between steel frame and brick jambs plastered up, using a mixture of one of cement to three of sand, the same method being applied at head and cill to make a thoroughly weather-tight joint between the window and the wall at all points.

Fixing to Brickwork or Concrete after Openings are built: Cut grooves of sufficient depth with a narrow chisel. Then place the lugs in the grooves, set window in its position and bolt the lugs to the frame, taking care that the window is both level and upright. After this is done make good the joint between the frame and the brickwork with cement, as described above.

Fixing to Wood: Bed windows at head jambs and cill in mastic, screw frames into position with wood screws provided, and point on the outside.
Mastic is a special elastic composition which we supply in kegs at 15s. per cwt.

Generally. Care should be taken that the windows are kept square and true and not distorted in any way.

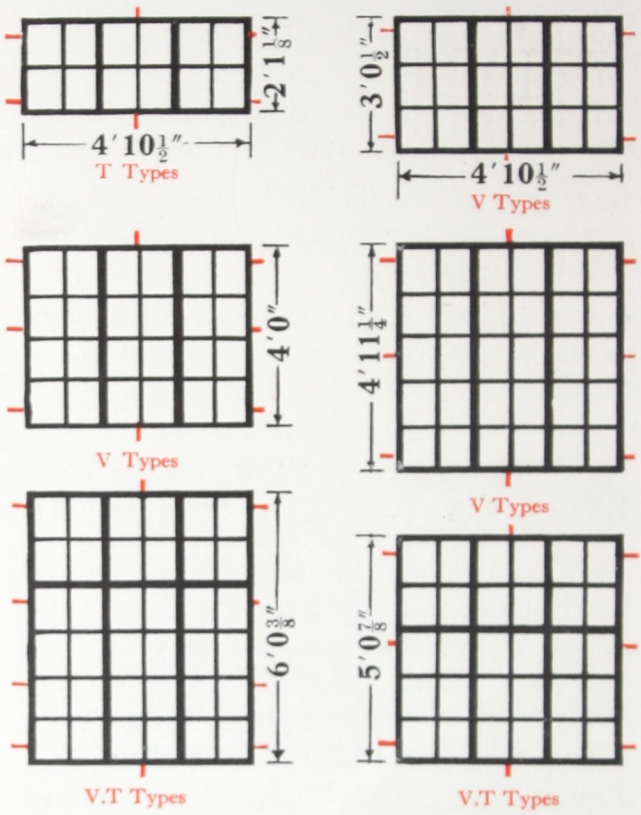
We will gladly send one of our superintendents to give advice or to supervise on receipt of request.

INSTRUCTIONS FOR GLAZING HOPE'S STANDARD WINDOWS

Each pane should be carefully bedded and neatly front puttied. Keep the front putty as narrow as possible; a wide splay increases liability to "run" and makes a slovenly job. Ordinary glazier's putty should not be used, as this will never set hard on metal.

Formula Recommended: Add to 100 lbs. of pure linseed oil putty 1½ pints of gold size, and mix thoroughly to a stiff compound; use fresh after mixing.

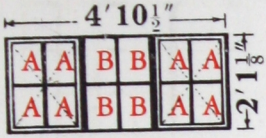
LUGS



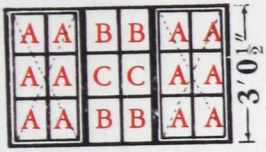
Diagrams shew positions of lugs for each type. The top and bottom lugs are 3 ins. from the top and bottom of the windows.

A lug is also provided in centre of the top and bottom of all two and three unit types.

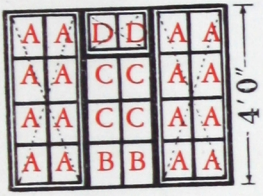
GLASS SIZES (Clearance allowed)



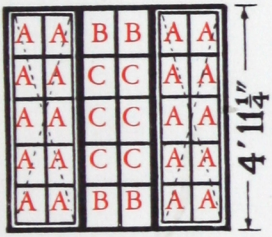
T Types



V Types



V Types



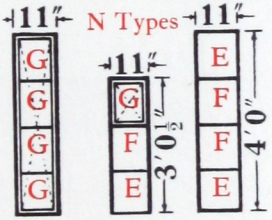
Panes Marked	*High*	*Wide*
"A"	11⅛ins.	× 8½ins.
"B"	11⅝ins.	× 9ins.
"C"	11⅛ins.	× 9ins.
"D"	10⅝ins.	× 8½ins.
"E"	11⅝ins.	× 9⅜ins.
"F"	11⅛ins.	× 9⅜ins.
"G"	10⅝ins.	× 8⅜ins.

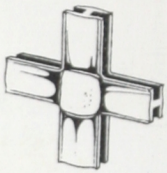
"A" indicates panes in opening portions of T. and V. types.

"B" and "C" indicate panes in fixed portions of T. and V. types.

"E" and "F" indicate panes in fixed portions of N. types.

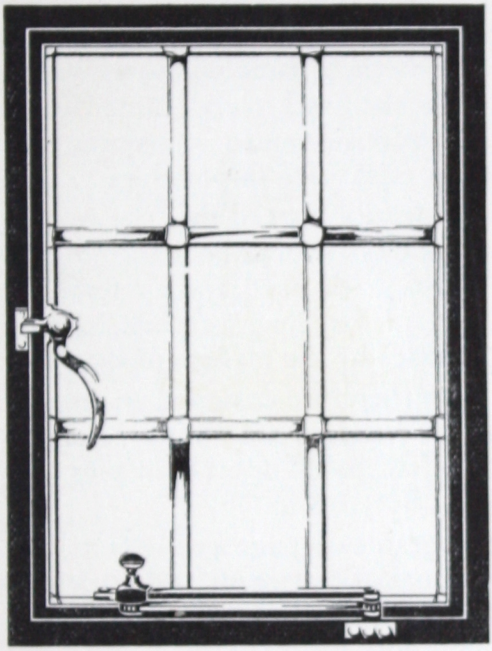
"G" indicates panes in opening portions of N. types.





HOPE'S

Standard Casements with Leaded Glazing



Inside view of Type L.2 Window

WHEN we designed our standard steel windows with Tastragals, which are fully illustrated on the foregoing pages of this book, we made each window a multiple of the same well proportioned pane, and our designs are now in general use, other makers having adopted them both in England and the United States.

Many of our customers have asked us if we can supply these same windows with leaded glass, but the fixed overall dimensions make their subdivision into appropriate smaller panes of equal size impossible.

It is generally agreed that the size of window openings should be determined by the size of pane to be used, and a reference to the fine examples of Tudor architecture confirm this practice by the masters of that period.

We have therefore designed an entirely new range of standard side hung casements for leaded glass, based upon multiples of a pane 7.3/8 in. by 5.1/8 in.

The diagrams on page 45 illustrate the complete range of casements and leaded glass.

They are appropriate for application to mullioned windows constructed of wood, brick or stone, and are strongly recommended for small dwelling houses and similar buildings

where the prices of purpose made casements cannot be justified.

The leaded lights are of 21 oz. glass with 5/8 in. strong lead cames, thoroughly well soldered and cemented on both sides.

HOPE'S SPECIFICATION

Casements and frames of rolled steel with two points of contact; all corners solid welded, and neatly cleaned off.

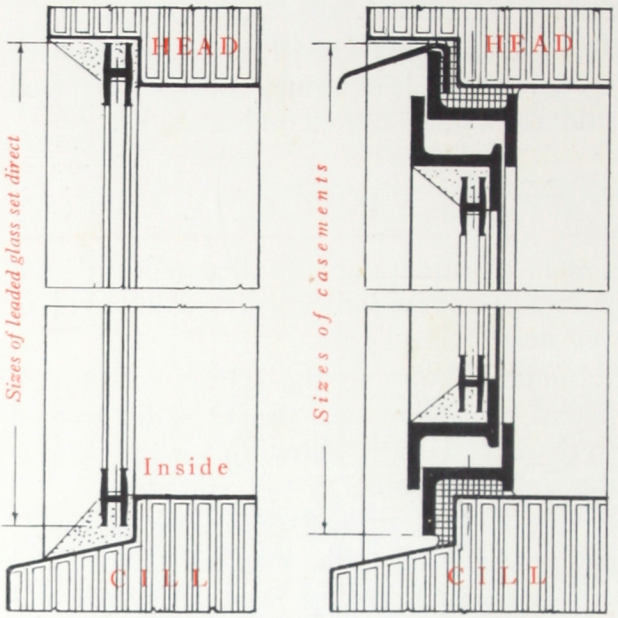
Casements hung to the frames on Hope's patent projecting steel hinges, solid welded to the steel flanges, allowing for easy cleaning from the inside.

Fittings of solid bronze, consisting of Hope's patent 2-point handle with radial stop, and non-projecting sliding stay, all plates and brackets being solid welded to the casements (see page 46 for fittings and hinges).

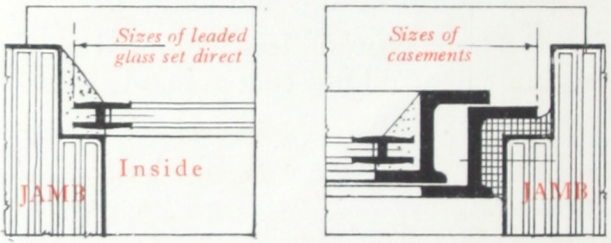
Finish: One coat of lead coloured rust-resisting paint, and one coat of elastic enamel, both baked on.

You run no risk if you specify Hope's Standard Casements and leaded glass. We hold over 5,000 in stock, ready for delivery when your building needs them.

DETAILS HALF FULL SIZE



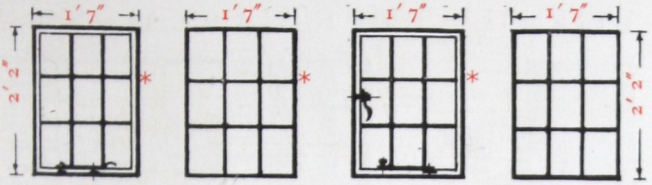
VERTICAL SECTIONS



PLANS

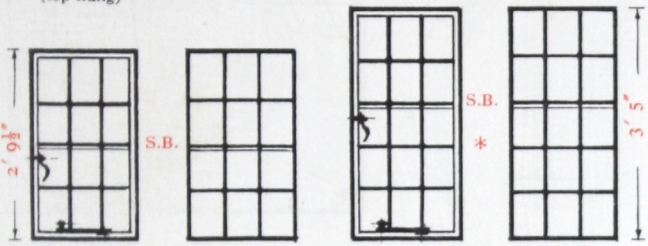
All side hung casements are made either right hand or left hand and orders should state which hand is required.

"L" TYPE STANDARD SIZES



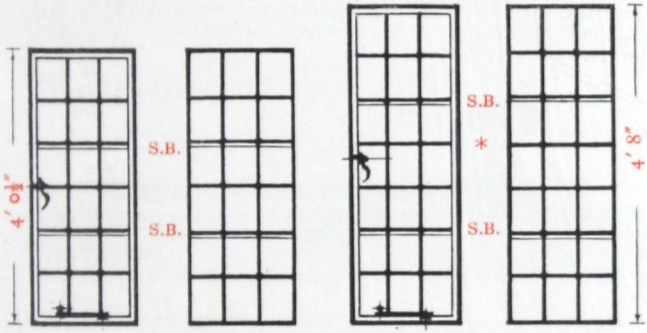
21/- Type L.1 6/- (top hung)

24/6 Type L.2 6/-



28/- Type L.3 8/-

30/6 Type L.4 9/6



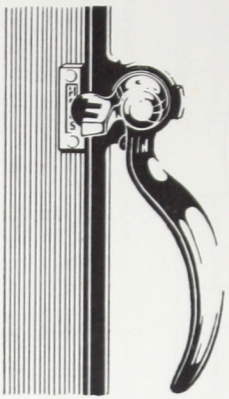
33/9 Type L.5 11/3

37/6 Type L.6 13/-

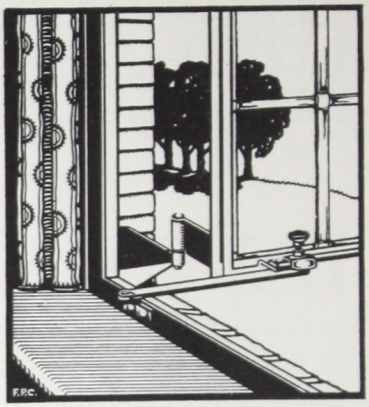
The diagrams show each size of casement with its corresponding fixed leaded light.

* Indicates steel cored lead cames. S.B. Saddle bar. Prices for the casements include the leaded glass.

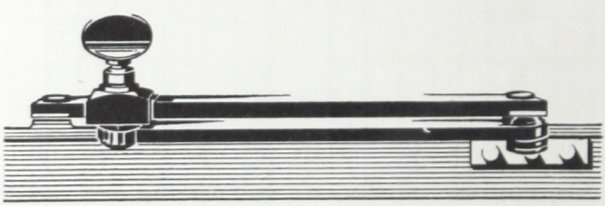
HOPE'S STANDARD HARDWARE FOR "L" TYPE CASEMENTS



HOPE'S TWO-POINT HANDLE IN SOLID BRONZE, *with* PATENT RADIAL STOP GIVES A LITTLE VENTILATION WITHOUT RATTLING



HOPE'S CLEANING HINGE, WHICH PROVIDES A SPACE OF 4½ INS. WHEN FULLY OPEN, ALLOWS ALL CASEMENTS TO BE CLEANED WITH SAFETY FROM INSIDE OF ROOM



HOPE'S SLIDING STAY 223C, IN SOLID BRONZE, GRIPS THE CASEMENT FIRMLY AT ANY ANGLE WITHOUT PROJECTING INTO THE ROOM

· INDEX ·

	Page
Introduction and Specification	2 & 3
Types and Sizes	4 to 7
Full Size Sections	8 & 9
Head Weatherings	10 & 11
Fixing to Solid Brickwork	12 ,, 13
,, ,, *Brick Cavity Walls*	14 ,, 15
,, ,, *Roughcasted Walls*	16 ,, 17
,, ,, *Concrete Walls*	18 ,, 19
,, ,, *Wood Construction*	20 ,, 21
Standard French Windows	22 to 25
Hinges	26 & 27
Ordering Instructions and Lok'd Bar Joint	28
Standard V.6.T Window	29
Standard Hardware	30 & 31
Bay Windows, details, etc.	32 to 35
Instructions for Fixing and Glazing	36 & 37
Lug positions for Fixing Windows	38
Glass Sizes	39
"L" type Windows (leaded glass)	40 to 46

B.C.M.
HOPE'S

PRINTED IN ENGLAND
AT THE KYNOCH PRESS

[BLANK PAGE]



